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## **Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of claims:

1-185. (Cancelled)

186. (Previously Presented) Mesogens having the following formula:

$$x- \bigoplus_{R^1} \cdot c_{(0)0} \cdot \bigoplus_{R^2} \cdot o(0)C \cdot \bigoplus_{R^3} - \gamma$$

wherein

X is a polymerizable group,

Y consists essentially of an amino group;

 $R^2$  is selected from the group consisting of t-butyl groups, isopropyl groups, and secondary butyl groups; and

 $R^1$  and  $R^3$  are selected from the group consisting of hydrogen and a methyl group.

- 187. (Previously Presented) The mesogens of claim 186 wherein said polymerizable groups have polymerizable unsaturated carbon-carbon bond.
- 188. (Previously Presented) The mesogens of claim 186 wherein said polymerizable groups are selected from the group consisting of acryloyloxy alkoxy groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12 carbon atoms.
- 189. (Previously Presented) The mesogens of claim 188 wherein said alkyl moiety consists essentially of from 2 to 12 carbon atoms and CH<sub>2</sub> groups optionally are

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substituted by groups selected from the group consisting of oxygen, sulfur, and ester groups; provided that from 2 to 12 carbon atoms separate said oxygen from said ester groups.

190. (Previously Presented) The mesogens of claim 189 wherein said alkyl moiety consists essentially of a total of from 2 to 9 carbon atoms.

191. (Previously Presented) The mesogens of claim 189 wherein said alkyl moiety consists essentially of a total of from 2 to 6 carbon atoms.

192-195. (Cancelled)

196. (Previously Presented) The mesogens of claim 186 wherein one or more members selected from the group consisting of X and Y is a cinnamoyloxy group.

197-198. (Cancelled)

199. (Previously Presented) Mesogens having the following formula:

wherein

X is a polymerizable group selected from the group consisting of acryloyloxy alkoxy groups and methacryloyloxy alkoxy groups having alkyl moiety with from 2 to 12 carbon atoms;

Y consists essentially of an amino group;

R<sup>2</sup> is selected from the group consisting of alkyl groups having from about 1 to 6 carbon atoms and aryl groups; and

R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group.

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200. (Cancelled)

201. (Previously Presented) The mesogens of claim 199 wherein said alkyl moiety consists essentially of from 2 to 12 carbon atoms and CH<sub>2</sub> groups optionally are substituted by groups selected from the group consisting of oxygen, sulfur, and ester groups; provided that from 2 to 12 carbon atoms separate said oxygen from said ester groups.

- 202. (Previously Presented) The mesogens of claim 201 wherein said alkyl moiety consists essentially of a total of from 2 to 9 carbon atoms.
- 203. (Previously Presented) The mesogens of claim 201 wherein said alkyl moiety consists essentially of a total of from 2 to 6 carbon atoms.

204-207. (Cancelled)

- 208. (Currently Amended) The mesogens of claim <del>204</del> <u>199</u> wherein one or more members selected from the group consisting of X and Y is cinnamoyloxy group.
  - 209. (Currently Amended) Mesogens having the following formula:

$$X = \left( \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \right) \cdot C(O)O = \left( \begin{array}{c} \\ \\ \\ \\ \end{array} \right) \cdot O(O)C \cdot \left( \begin{array}{c} \\ \\ \\ \\ \end{array} \right) = Y$$

wherein X and Y independently are selected from the group consisting of spacer groups, polymerizable groups, and combinations thereof, wherein one or more members selected from the group consisting of X and Y have the following structure:

wherein Z is selected from the group consisting of spacer groups, terminal functionalities, polymerizable groups, and combinations thereof, said spacer groups being

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selected from the group consisting of  $H-(CH_2)_n$ -O- groups,  $CI(CH_2)_n$ -O- groups,  $CI(CH_2)_n$ -O- groups,  $CI(CH_2)_n$ -O- groups,  $CI(CH_2)_n$ -O- groups, wherein n is from about 2 to about 12 wherein the  $CH_2$  groups independently can be substituted by oxygen, sulfur, or an ester group; provided that from 2 to 12 carbon atoms separate said oxygen or said ester group;

 $R^2$  is selected from the group consisting of alkyl groups having from 1 to 6 carbon atoms and aryl groups; and

R<sup>1</sup> and R<sup>3</sup> are selected from the group consisting of hydrogen and a methyl group.

- 210. (Previously Presented) The mesogens of claim 209 wherein X and Y further consist essentially of functionalities independently selected from the group consisting of hydroxyl groups, amino groups, and sulfhydryl groups.
- 211. (Previously Presented) The mesogens of claim 210 wherein n is from about 2 to 9.
- 212. (Currently Amended) The mesogens of claim 210 wherein n is from about 2 to 6.
- 213. (Currently Amended) The mesogens of claim 209 wherein said polymerizable groups have <u>an</u> alkyl moiety having <u>a</u> polymerizable unsaturated carbon-carbon bond.
- 214. (Currently Amended) The mesogens of claim 210 wherein said polymerizable groups have <u>an</u> alkyl moiety having <u>a</u> polymerizable unsaturated carbon-carbon bond.
- 215. (Currently Amended) The mesogens of claim 214 213 wherein said alkyl moiety has from 2 to 9 carbon atoms.
- 216. (Currently Amended) The mesogens of claim 214 213 wherein said alkyl moiety has from 2 to 6 carbon atoms.

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217. (Previously Presented) The mesogens of claim 209 wherein R<sup>2</sup> is selected from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary butyl groups, and phenyl groups.

- 218. (Previously Presented) The mesogens of claim 210 wherein  $R^2$  is selected from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary butyl groups, and phenyl groups.
- 219. (Previously Presented) The mesogens of claim 213 wherein R<sup>2</sup> is selected from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary butyl groups, and phenyl groups.
- 220. (Previously Presented) The mesogens of claim 214 wherein  $R^2$  is selected from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary butyl groups, and phenyl groups.
- 221. (Previously Presented) The mesogens of claim 216 wherein R<sup>2</sup> is selected from the group consisting of methyl groups, t-butyl groups, isopropyl groups, secondary butyl groups, and phenyl groups.

222-223. (Cancelled)

- 224. (Currently Amended) The mesogens of claim 220 wherein  $\mathbb{R} \ \underline{\mathbb{R}^1}$  and  $\mathbb{R}^3$  are selected from the group consisting of hydrogen and  $\underline{a}$  methyl group.
- 225. (Currently Amended) The mesogens of claim 221 wherein  $\mathbb{R} \times \mathbb{R}^1$  and R3 are selected from the group consisting of hydrogen and a methyl group.

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- 226. (Currently Amended) The mesogens of claim 209 wherein one or more members selected from the group consisting of X and Y is a cinnamoyloxy group.
- (Currently Amended) The mesogens of claim 217 wherein one or more 227. members selected from the group consisting of X and Y is a cinnamoyloxy group.
- 228. (Currently Amended) The mesogens of claim 221 wherein one or more members selected from the group consisting of X and Y is a cinnamoyloxy group.